

CLAIMS

1. A refrigerator comprising:

5 a refrigeration cycle composed of a compressor, a condenser, a capillary tube and an evaporator linked together forming a cycle, in which a flammable refrigerant is enclosed inside the refrigerating cycle; and

a heat insulating box composed of an inner box facing inward of the refrigerator and an outer box facing outward of the refrigerator,

10 in which a heat-insulator composed of at least a board-shape molded inorganic fiber is disposed inside a space of the heat insulating box,

the heat-insulator being a vacuum heat-insulator, in which a board-shape molded inorganic fiber is covered by a gas-barring film and inside the film is evacuated.

15 2. The refrigerator according to claim 1,

wherein a foam resin is additionally disposed inside the space of the heat insulating box.

3. The refrigerator according to claim 2,

20 wherein the vacuum heat-insulator is disposed on the outer box of the heat insulating box.

4. The refrigerator according to one of claims 1 to 3,

25 wherein the vacuum heat-insulator is disposed inside the space of the heat insulating box of a door which is attached to the refrigerator.

5. The refrigerator according to one of claims 1 to 4,

wherein the refrigerator further comprising a partition box partitioning

inside the refrigerator into mutually independent compartments, and the vacuum heat-insulator is disposed inside space of the partitioning box.

6. The refrigerator according to claim 5,

5 wherein the partition box is integrated to the heat insulating box.

7. A refrigerator comprising:

 a refrigeration cycle composed of a compressor, a condenser, a capillary tube and an evaporator linked together forming a cycle; and

10 a heat insulating box which is composed of an inner box facing inward of the refrigerator and an outer box facing outward of the refrigerator, in which a heat-insulator composed of at least a board-shape molded inorganic fiber is disposed inside a space of the heat insulating box, and the space is decompressed.

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8. The refrigerator according to one of claims 1 to 7,

 wherein the board-shape molded inorganic fiber includes at least silica.

9. The refrigerator according to one of claims 1 to 7,

20 wherein the board-shape molded inorganic fiber includes at least alumina.

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